IN THE CLAIMS:

1. (Original) A cryptographic communication system comprising:

a key distribution server for distributing a key used to decrypt encrypted information; and

a specific number of subscriber terminals using said information,

wherein said key distribution server distributes:

an encrypted first group key used to decrypt said information;

individual decryption information corresponding to said specific number of subscriber

terminals and used to perform decryption of said first group key; and

individual key update information corresponding to said specific number of subscriber

terminals and used to perform a part of decryption of a second group key, said second group key

being updated after a group key is updated,

and wherein said specific number of subscriber terminals decrypt said first group key distributed

from said key distribution server by use of results obtained by processing operations performed

based on said key update information previously obtained and used to decrypt said first group

key, as well as by use of said decryption information distributed from said key distribution

server.

2. (Original) The cryptographic communication system according to claim 1, wherein said

specific number of subscriber terminals implement a part of decryption of said group key, said

decryption being performed using said individual key update information, before distribution of

said group key.

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3. (Original) The cryptographic communication system according to claim 1, wherein said key

distribution server distributes to said specific number of subscriber terminals key update

information, used to decrypt said first group key, together with a third group key, said third

group key being in a state before said third group key gets updated to said first group key.

4. (Original) The cryptographic communication system according to claim 1, wherein in the

event where said key distribution server updates said group key, said key distribution server

determines which subscriber terminals among said specific number of subscriber terminals are to

be excluded and distributes to said specific number of subscriber terminals, together with said

group key being updated, said decryption information used by remaining subscriber terminals

other than said subscriber terminals to be excluded to make said remaining subscriber terminals

able to decrypt said group key being updated.

5. (Original) A key distribution server for distributing a key used to decrypt encrypted

information, comprising:

means for generating a first group key used to decrypt said information and encrypting

said first group key;

means for generating individual decryption information used to perform decryption of

said first group key and corresponding to subscriber terminals;

means for generating individual key update information used to perform a part of

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decryption of a second group key, said second key being updated after a group key is updated,

and corresponding to said subscriber terminals; and

means for distributing said first group key, said decryption information and said key

update information to said subscriber terminals.

6. (Original) The key distribution server according to claim 5, wherein said means for

generating said decryption information determines which terminals among said subscriber

terminals are to be excluded and generates said decryption information used by remaining

subscriber terminals other than said subscriber terminals to be excluded in order to make said

remaining subscriber terminals able to decrypt said group key.

7. (Original) A terminal device comprising:

means for retrieving from a specific key distribution server a group key encrypted to

decrypt encrypted information and decryption information used to decrypt said group key;

means for performing a part of decryption of said group key before distribution of said

group key; and

means for decrypting said group key by use of results obtained by processing operations

performed based on a part of decryption of said group key and said decryption information

retrieved from said key distribution server.

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Amendment Under 37 C.F.R §1.111 dated January 7, 2008

In response to Office Action dated September 6, 2007

8. (Canceled) A program for controlling a computer and then distributing a key used to decrypt encrypted information, said program making said computer have capabilities including:

a function of generating a first group key used to decrypt said information and encrypting said first group key;

a function of generating individual decryption information used to perform decryption of said first group key and corresponding to subscriber terminals;

a function of generating individual key update information used to perform a part of decryption of a second group key, said second key being updated after a group key is updated, and corresponding to said subscriber terminals; and

a function of distributing said first group key, said decryption information and said key update information to said subscriber terminals via specific communication means.

- 9. (Currently Amended) The program recording medium according to claim 118, wherein said function of generating individual decryption information determines which subscriber terminals among said subscriber terminals are to be excluded and generates said decryption information used by remaining subscriber terminals other than said subscriber terminals to be excluded in order to make said remaining subscriber terminals able to decrypt said group key.
- 10. (Currently Amended) A recording medium recording a A program thereon for controlling a computer and then achieving a specific function, said program making said computer have capabilities including:

- a function of retrieving from a specific key distribution server a group key encrypted to decrypt encrypted information and decryption information used to decrypt said group key via specific communication means;
- a function of performing a part of decryption of said group key before distribution of said group key; and
- a function of decrypting said group key by use of results obtained by processing operations performed based on a part of decryption of said group key and said decryption information retrieved from said key distribution server.
- 11. (Original) A recording medium recording a program thereon for controlling a computer and then distributing a key used to decrypt encrypted information, said program being made readable by said computer so as to make said computer have capabilities achieved though use of said program, said program including:
- a function of generating a first group key used to decrypt said information and encrypting said first group key;
- a function of generating individual decryption information used to perform decryption of said first group key and corresponding to subscriber terminals;
- a function of generating individual key update information used to perform a part of decryption of a second group key, said second key being updated after a group key is updated, and corresponding to said subscriber terminals; and
 - a function of distributing said first group key, said decryption information and said key

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update information to said subscriber terminals via specific communication means.

12. (Original) A recording medium recording a program thereon for controlling a computer and then achieving a specific function, said program being made readable by said computer so as to make said computer have capabilities achieved though use of said program, said program including:

a function of retrieving from a specific key distribution server a group key encrypted to decrypt encrypted information and decryption information used to decrypt said group key via specific communication means;

a function of performing a part of decryption of said group key before distribution of said group key; and

a function of decrypting said group key by making use of results obtained by processing operations performed based on a part of decryption of said group key and said decryption information retrieved from said key distribution server.

13. (Original) A key sharing method for making a specific number of terminals share a key used to decrypt encrypted information, said specific number of terminals making use of said information, said method comprising:

a step of making said specific number of terminals perform a part of decryption of an encrypted group key used to decrypt said information before distribution of said group key; a step of distributing to said specific number of terminals said group key and individual decryption information used to perform a part of remaining decryption other than said part of

decryption of said group key and corresponding to said specific number of terminals; and

a step of making said specific number of terminals perform decryption of said group key

using said decryption information being distributed and results obtained by performing a part of

decryption of said group key, said part of decryption previously being performed.

14. (Original) The key sharing method according to claim 13, wherein information used to

perform said part of decryption is distributed in advance of distribution of said group key to said

specific number of terminals together with said group key, said group key being in a state before

being updated.

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